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## SEQUENCE ANALYSIS

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## EMBOSS-Align Results

| Needle Results               |   |
|------------------------------|---|
| <b>Matrix</b>                | DNAfull   |
| <b>Open gap penalty</b>      | 10.0  |
| <b>Gap extension penalty</b> | 0.5   |
| <b>Needle output</b>         | <a href="#">needle-20060804-00212328575043.output</a> |

```

#####
# Program: needle
# Rundate: Fri Aug 04 00:21:24 2006
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/needle-20060804-00212328575043.output
#####

=====
#
# Aligned_sequences: 2
# 1: EMBOSS_001
# 2: EMBOSS_001
# Matrix: EDNAFULL
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1053
# Identity: 1052/1053 (99.9%)
# Similarity: 1052/1053 (99.9%)
# Gaps: 0/1053 ( 0.0%)
# Score: 5256.0
#
#
=====

EMBOSS_001      1 atggcgacccgaaaggcggaaagcggccggctggatcaggatgagag
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      1 atggcgacccgaaaggcggaaagcggccggctggatcaggatgagag
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      51 atcatttcagacaccaacgaaagtgaaataaagtcaaatgaagagccac
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      51 atcatttcagacaccaacgaaagtgaaataaagtcaaatgaagagccac
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      101 tcctaagaaaagagtctcgccggttgtcatttcaatccagtaccct
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      101 tcctaagaaaagagtctcgccggttgtcatttcaatccagtaccct
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      151 gatatttggaaaatgtataaacaggcacaggcttccttctggacagcaga
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      151 gatatttggaaaatgtataaacaggcacaggcttccttctggacagcaga
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|
EMBOSS_001      201 agaggtcgacttatcaaaggatctccctcactggaaacaagcttaaagcag
                  |||||||.....|||||||.....|||||||.....|||||||.....|||..|

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## EMBOSS-Align Results

| Needle Results        |   |
|-----------------------|---|
| Matrix                | Blosum62  |
| Open gap penalty      | 10.0  |
| Gap extension penalty | 0.5   |
| Needle output         | <a href="#">needle-20060804-00264023727706.output</a> |

```

#####
# Program: needle
# Rundate: Fri Aug 04 00:26:41 2006
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/needle-20060804-00264023727706.output
#####

=====
#
# Aligned_sequences: 2
# 1: EMBOSS_001
# 2: EMBOSS_001
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 351
# Identity: 351/351 (100.0%)
# Similarity: 351/351 (100.0%)
# Gaps: 0/351 ( 0.0%)
# Score: 1821.0
#
#
=====

EMBOSS_001      1 MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLLRKSSRRFVIFPIQYP
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001      1 MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLLRKSSRRFVIFPIQYP
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001      51 DIWKMYKQAQASFWTAAEVVLDSKDLPHWNKLKADEKYFISHILAFFAASD
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001      51 DIWKMYKQAQASFWTAAEVVLDSKDLPHWNKLKADEKYFISHILAFFAASD
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001     101 GIVNENLVERFSQEVQVPEARCFYGFQILIEVNHSEMSLLIDTYIRDPK
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001     101 GIVNENLVERFSQEVQVPEARCFYGFQILIEVNHSEMSLLIDTYIRDPK
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001    151 KREFLFNIAETMPYVKKKADWALRWIADRKFSTFGERVVAFAAVEGVFFSG
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001    151 KREFLFNIAETMPYVKKKADWALRWIADRKFSTFGERVVAFAAVEGVFFSG
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
EMBOSS_001   201 SFAAIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEER
                  ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||

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|            |     |  |     |
|------------|-----|--|-----|
| EMBOSS_001 | 201 | SFAAIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEER | 250 |
| EMBOSS_001 | 251 | VREIIVDAVKIEQEFLTEALPVGLIGMNCILMKQYIEFVADRLLVELGFS | 300 |
| EMBOSS_001 | 251 | VREIIVDAVKIEQEFLTEALPVGLIGMNCILMKQYIEFVADRLLVELGFS | 300 |
| EMBOSS_001 | 301 | KVFQAENPFDFMENISLEGKTNFFEKRVSEYQRFAVMAETTDNVFTLDAD | 350 |
| EMBOSS_001 | 301 | KVFQAENPFDFMENISLEGKTNFFEKRVSEYQRFAVMAETTDNVFTLDAD | 350 |
| EMBOSS_001 | 351 | F 351  |     |
| EMBOSS_001 | 351 | F 351  |     |

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